| **Accelerated 8th Grade Math - Sequencing the Common Core Standards** | | | | | |
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| **Chapter** | **1** | **2** | **3** | **4** | **5** |
| **Expressions, Equations and Functions** | **Properties of Real Numbers**  **\*Pythagorean Theorem** | **Solving Linear Equations** | **Graphing Linear Equations and Functions** | **Writing Linear Equations** |
| **Standards** | A SSE 1  F-IF 1  F-IF 3  F-IF 5  F-IF 7  F-LE 2  8 F 1  8 F 2  A CED 2  A CED 3 | A SSE 2  F-IF 4  8 G 6  8 G 7  8 G 8  A CED 3 | A SSE 1  A REI 1  A REI 3  A CED 1  A CED 3  A CED 4  N-Q1  N-Q2  N-Q3 | A REI 10  A CED 2  F-IF 3  F-IF 4  F-IF 5  F-IF 6  F-IF 7  F-IF 8  F-IF 9  F-BF 3  F-LE 1  S-ID 7  8 F 3  8 F 4  8 F 5 | F-IF 3  F-IF 5  F-IF 6  F-IF 7  F-IF 8  F-IF 9  F-BF 1  F-BF 2  F-BF 4  F-LE 2  F-LE 5  S-ID 6  S-ID 7  A CED 2  ACED 3  8 SP 1  8 SP 2  8 SP 3  8 SP 4  Bi-Variate Data |
| **Supporting Materials** | **Algebra 1 Textbook**  Lesson 1.3  Lesson 1.5  Lesson 1.6  Lesson 1.7  Page 49 | **Algebra 1 Textbook**  Page 71  Lesson 2.4  Lesson 2.5  Lesson 2.6  Lesson 2.7  **Course 3 Textbook**  Pythagorean Theorem  *Lesson 9.3*  Pythagorean Theorem and Converse, 2D and 3D  *Lesson 9.4 and ?*  Distance Between Two Points on a Coordinate Plane  *Create materials* | **Algebra 1 Textbook**  Lesson 3.1  Lesson 3.2  Lesson 3.3  Lesson 3.4  Lesson 3.5  Lesson 3.6  Lesson 3.7  Lesson 3.8 | **Algebra 1 Textbook**  Lesson 4.2  Page 222  Lesson 4.3  Lesson 4.4  Lesson 4.5  Page 251  Lesson 4.6  Lesson 4.7 | **Algebra 1 Textbook**  Lesson 5.1  Page 290  Lesson 5.2  Page 300  Lesson 5.3  Page 309  Lesson 5.4  Lesson 5.6  Lesson 5.7  **Bi-Variate Data Materials**  8th grade materials |

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| **Chapter** | **1** | **2** | **3** | **4** | **5** |
| **Expressions, Equations and Functions** | **Properties of Real Numbers**  **\*Pythagorean Theorem** | **Solving Linear Equations** | **Graphing Linear Equations and Functions** | **Writing Linear Equations** |
| **Vocabulary** | Term, factor, expression, coefficient, equation, variable, function, constant term, input, output, function notation, domain, range, independent variable, dependent variable, solution, unit rate, inequality, equivalent expression, distributive property, like terms, intersection, linear inequality, rate of change, base, rate, ratio, relation | Integers, absolute value,  perfect square, square root, rational number, irrational number, real numbers, hypotenuse, legs, converse, Pythagorean Theorem, element, empty set, set, unión, universal set, radical, radical symbol | Inverse operations, equivalent equations, literal expression,,  additive identity, additive inverse, multiplicative identity, multiplicative inverse, identity, linear, linear model, linear representation, reciprocal | Linear equation, standard form, linear function,  x-intercept, y-intercept,  slope, direct variation,  constant of variation,  function notation,  slope-intercept form, periodicity, step function, family of functions, restricted domain | Point-slope form, positive correlation, negative correlation, line of best fit, linear regression, extrapolation, interpolation,  Zero of a function, recursive, interquartile range, standard deviation, clustering, bivariate, causation, correlation, dot plot, equal intervals, correlation coefficient, linear association, nonlinear association, outlier, frequency, histogram, extreme value, arithmetic sequence, geometric sequence, axis of symmetry, no correlation, nonlinear, scale, strong correlation, symmetry, two-way table, univariate  **Unit 5.5**  \*Suggested unit for scatter plots, box-and-whisker plots and data analysis, measures of central tendency  S ID 1  S ID 2  S ID 3  S ID 8  S ID 9  **Materials**  \*The activities in the NCTM Navigating through Data correlate well with these standards. Some additional materials may be needed. |

| **Accelerated 8th Grade Math - Sequencing the Common Core Standards** | | | | | |
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| **Chapter** | **6** | **7** | **8** | **9** | **10** |
| **Solving and Graphing Linear Inequalities** | **Systems of Equations and Inequalities** | **Exponents and Exponential Functions** | **Polynomials and Factoring** | **Quadratic Equations and Functions** |
| **Standards** | A REI 3  A REI 12  F-IF 7  F-IF 9  A CED 1  A CED 3  A CED 12 | A REI 5  A REI 6  A REI 7  A REI 12  8 EE 8  A CED 3 | N RN 1  N RN 2  N RN 3  A SSE 3  F-IF 3  F-IF 4  F-IF 5  F-IF 6  F-IF 7  F-IF 8  F-IF 9  F-BF 1  F-BF 3  F-LE 1  F-LE 2  F-LE 5 | A SSE 2  A SSE 3  A REI 4  A APR 1 | A SSE 3  A REI 4  A REI 10  A REI 11  F-IF 4  F-IF 5  F-IF 6  F-IF 7  F-IF 8  F-IF 9  F-BF 1  F-BF 3  F-LE 1  F-LE 3 |
| **Supporting Materials** | Lesson 6.1  Lesson 6.2  Lesson 6.3  Lesson 6.4  Lesson 6.5  Page 396  Lesson 6.7 | Lesson 7.1  Lesson 7.2  Lesson 7.3  Lesson 7.4  Lesson 7.5  Lesson 7.6 | Lesson 8.1  Lesson8.2  Lesson 8.3  Page 509  Lesson 8.5  Lesson 8.6  Page 539 | Lesson 9.1  Page 561  Lesson 9.2  Lesson 9.3  Lesson 9.4  Page 582  Lesson 9.5  Lesson 9.6  Lesson 9.7  Lesson 9.8 | Lesson 10.1  Lesson 10.2  Page 641  Lesson 10.3  Page 650  Lesson 10.4  Lesson 10.5  Page 669  Lesson 10.6  Lesson 10.7  Lesson 10.8 |

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| **Chapter** | **6** | **7** | **8** | **9** | **10** |
| **Solving and Graphing Linear Inequalities** | **Systems of Equations and Inequalities** | **Exponents and Exponential Functions** | **Polynomials and Factoring** | **Quadratic Equations and Functions** |
| **Vocabulary** | Equivalent inequalities, compound inequalities,  absolute value equations,  absolute deviation, closed system, absolute value function, inverse function, piecewise function, solution, solution to an inequality, square root function | System of linear equations, solution of a system  ,consistent independent system,  Inconsistent system,  System of linear inequalities, consistent dependent system, system of equations | Order of magnitude,  zero exponent, negative exponent,  exponential function,  growth factor, growth rate,  exponential decay, decay factor,  decay rate, integer exponent, cube root, exponential, properties of exponents, cube root, exponent, exponential, exponential growth, power, properties of exponents | Monomial,  degree of a monomial,  Polynomial,  degree of a polynomial,  leading coefficient,  binomial, trinomial, roots,  factor, factor completely, factoring, perfect square trinomial, vertical motion model | Quadratic function, standard form of a quadratic function, parabola, parent function, vertex, minima, maxima,  quadratic equation,  complete the square,  vertex form of a quadratic equation,  quadratic formula, discriminant, rational equation, radical expression, radical function, compound interest, constraints, extraneous solution, parent quadratic function |